

DEPARTMENT OF GENETICS  
FACULTY OF MEDICINE, OSAKA UNIVERSITY

Joancho-33, Kitaku, Osaka, Japan.

Oct. 21, 1961.

Dr. Ida Ørskov

International Salmonella  
and Escherichia Center,  
Statens SerumInstitut,  
Copenhagen, S.  
Denmark.

Dear Dr. Ørskov

Thank you for your letter of September 21. I understand your opinion that K-12 is not suitable for agglutination test of F+ serum, and you have the better male strains of E. coli such as C group 100 which could be used for f+ test.

I would like to test if the R factor repress the mating capacity of your male strains, and if it is repressed, then we can test the possibility which we discussed before. I am grateful if you could send me your anti-f serum with your suitable F+, Hfr, and F- carrying same genetic back ground.

Mr. Sugino and myself recently found that our  $\pi$  factors do behave as sex-factor in K-12. F-R+ x F-R- gives recombinants by cell to cell contact, for example.

<sup>Recently</sup> Professor J. Lederberg suggested to me " I imagine he( Dr. F. Ørskov) will be in touch with you concerning the possibility of his continuing an immunological examination of the strains which are rendered fertile by the R factor for comparison with the standard F. As it is quite unlikely that anyone in the world could do this particular immunological work so well -and there is every reason to believe that it will be quite advantageous to facilitate his making such a study.---"

I am hoping that if we could co-work together on this line as Josh has suggested, such as genetic control on production of male substances in E. coli by F and R including on the problem of repression of mating by R in this bacteria.

I would like to ask on your opinion in this point.  
Please send my best regards to Dr. Fritz Ørskov.

With best regards,  
Yours sincerely,  
*Yukinori Hirota*  
Yukinori Hirota